Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1-9. (Canceled)

10. (Currently Amended) A driving circuit for driving a plurality of pixels, the driving circuit comprising:

N number of sampling switches, where N is a natural number;

N number of A/D converters, each of the N A/D converters converting a first analog signal that is supplied through a corresponding one respective sampling switch of the N sampling switches into a digital signal;

N number of latches, each of the N latches storing said digital signal; and

N number of D/A converters, each of the N D/A converters converting said digital signal held in a corresponding latch of the N latches into a second analog signal to be supplied to said plurality of pixels.

- 11. (Previously Added) The driving circuit according to claim 10,
 the N sampling switch, the N A/D converters, the N latches, and the N D/A converters being disposed on one substrate.
 - 12. (Currently Amended) An electro-optical device comprising:

N number of data lines, where N is a natural number;

M number of scanning lines, where M is a natural number;

a plurality of pixels disposed correspondingly to intersections of the N data lines and the M scanning lines;

N number of sampling switches;



N number of A/D converters, each of the N A/D converters converting a first analog signal that is supplied through one respective a corresponding sampling switch of the N sampling switches into a digital signal;

N number of latches, each of the N latches storing said digital signal; and N number of D/A converters, each of the N D/A converters converting said digital signal held in a corresponding latch of the N latches into a second analog signal to be supplied to a corresponding data line of the N data lines.

- 13. (Previously Added) An electronic apparatus comprising said electro-optical device according to claim 12 as a display device.
 - 14. (Currently Amended) An electro-optical device, comprising:

N number of data lines, where N is a natural number;

M number of scanning lines, where M is a natural number;

a plurality of pixels disposed correspondingly to intersections of the N data lines and the M scanning lines;

N sampling switches;

N number of A/D converters, each of the N A/D converters converting a first analog signal that is supplied through a corresponding one respective sampling switch of the N sampling switches into a digital signal;

N number of latches, each of the N latches storing said digital signal outputted by a corresponding A/D converter of the N A/D converters; and

N number of D/A converters, each of the N D/A converters converting said digital signal held in a corresponding latch of the N latches into a second analog signal to be supplied to a corresponding data line of the N data lines,

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the N data lines, the M scanning lines, the plurality of pixels, the N sampling switches, the N A/D converters, the N latches, and the D/A converters being disposed on one substrate.

15. (Currently Amended) A driving circuit for driving a plurality of pixels, the driving circuit comprising:

a sampling circuit that samples a first analog signal supplied through one sampling switch and holds a first analog signal to be inputted in one horizontal scanning period;

an A/D conversion circuit that converts said first analog signal held in said sampling circuit into a digital signal;

a storage device that stores said digital signal; and

- a D/A conversion circuit that converts said digital signal, which is stored in said storage device, into a second analog signal to be supplied to said plurality of pixels.
- 16. (Previously Added) The driving direcuit according to claim 15, said sampling circuit, said A/D conversion circuit, said storage device, and said D/A conversion circuit being disposed on one substrate.

17.	(Currently Amended) A driving cir	cuit for driving a plurality of pixels, the
driving circui	it comprising:	
	a sampling circuit that samples a fi	rst analog\signal and holds said first analog
signal to be in	nputted in one horizontal scanning pe	eriod: verts said first analog signal held in said
sampling circ	cuit into a digital signal;	verts said first kindlog signal field in said
	a storage device that stores said dig	gital signal; and



a D/A conversion circuit that converts said digital signal, which is stored in said storage device, into a second analog signal to be supplied to said plurality of pixels The driving circuit according to claim 15,

said A/D conversion circuit converting said first analog signal held in said sampling circuit into said digital signal within a time that is a shorter than said one horizontal scanning period, said digital signal being stored in said storage device.

18. (Previously Added) The driving circuit according to claim 15, said storage device storing said digital signal obtained from said A/D conversion circuit within a fixed period, and

said D/A conversion circuit converting said digital signal stored in said storage device into said second analog signal to be supplied to the plurality of pixels.

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19. (Currently Amended) A driving circuit for driving a plurality of pixels, the
driving circuit comprising:
a sampling circuit that samples a first analog signal and holds said first analog
signal to be inputted in one horizontal scanning period;
an A/D conversion circuit that converts said first analog signal held in said
sampling circuit into a digital signal;
a storage device that stores said digital signal;
a D/A conversion circuit that converts said digital signal, which is stored in
said storage device, into a second analog signal to be supplied to said plurality of pixels The
driving circuit according to claim 15, further comprising:
a path through which said digital signal is supplied from said A/D conversion
circuit to said storage device; and
a nath through which an external digital signal is sumplied from an external



circuit to said storage device.

- 20. (Previously Added) The driving circuit according to claim 15, said D/A conversion circuit generating said second analog signal obtained by performing nonlinear conversion of said digital signal.
- 21. (Previously Added) The driving circuit according to claim 16, said sampling circuit, said A/D conversion circuit, said storage device, said D/A conversion circuit, and said pixels comprising a plurality of thin film transistors formed on said substrate.
- 22. (Previously Added) An electro-optical device comprising said driving circuit according to claim 15 and a plurality of pixels driven by said driving circuit.
- 23. (Previously Added) An electronic apparatus comprising said electro-optical device according to claim 22 as a display device.
- 24. (Currently Amended) A driving circuit for driving a plurality of pixels, the driving circuit comprising:

an A/D conversion circuit that converts a first analog signal supplied through one sampling switch into a digital signal;

a storage device that stores said digital signal; and

a D/A conversion circuit that converts said digital signal, which is stored in said storage device, into a second analog signal to be supplied to said plurality of pixels,

said A/D conversion circuit, said storage device, and said D/A conversion circuit being disposed on one substrate.

25. (Currently Amended) An electro-optical device comprising:

an A/D conversion circuit that converts a first analog signal supplied through

one sampling switch into a digital signal;

a storage device that stores said digital signal;



a D/A conversion circuit that converts said digital signal, which is stored in said storage device, into a second analog signal; and

a plurality of pixels to which said second analog signal is supplied from said D/A conversion circuit,

said A/D conversion circuit, said storage device, said D/A conversion circuit, and said plurality of pixels being disposed on one substrate.

26. (Previously Added) An electronic apparatus comprising said electro-optical device according to claim 25 as a display device.